Appl. No. 09/690,673 Amdt. dated 9/9/04 Reply to Office Action of 3/10/04

PATENT Docket: 000128

## IN THE CLAIMS

1. (Currently Amended) A method of reducing average power consumption in a wireless communication device (WCD), the WCD operating in sleep and awake modes during monitoring of a slotted paging channel, comprising:

providing a plurality of counters of substantially equal periods;

establishing a roll over point for each counter at a predetermined offset relative to each other counter to establish substantially equal time increments between adjacent roll over points;

identifying a timing point for at least one roll over point; and

transitioning between the sleep and awake modes during the occurrence of an identified timing point.

- (Original) The method of claim 1, wherein establishing a roll over point comprises spacing each of the plurality of counters at substantially equal time increments around a PN sequence period.
- 3. (Original) The method of claim 1, wherein establishing a roll over point comprises synchronizing each of the plurality of counters to a corresponding pseudonoise (PN) sequence generator.
- 4. (Original) The method of claim 3, wherein synchronizing each of the plurality of counters to a corresponding pseudonoise (PN) sequence generator comprises shifting each of the corresponding PN sequence generators by an offset, thereby enabling the demodulation of a corresponding multipath transmission component.
- 5. (Original) The method of claim 1, wherein transitioning between the sleep and awake modes comprises commencing awake mode operation at a predetermined number of timing points before the beginning of a paging channel slot assigned to the WCD.
- 6. (Original) The method of claim 1, wherein transitioning between the sleep and awake modes comprises commencing sleep mode operation at a predetermined number of timing points after the beginning of a paging channel slot assigned to the WCD.

Appl. No. 09/690,673 Amdt. dated 9/9/04 Reply to Office Action of 3/10/04

PATENT Docket: 000128

- 7. (Original) The method of claim 1, wherein transitioning between the sleep and awake modes comprises commencing awake mode operation two timing points before the beginning of a paging channel slot assigned to the WCD.
- 8. (Original) The method of claim 1, wherein transitioning between the sleep and awake modes comprises commencing sleep mode operation at a first occurring timing point after the WCD determines there is no paging traffic to decode during a paging channel slot assigned to the WCD.
- 9. (Original) The method of claim 1, wherein the slotted paging channel carries code division multiple access (CDMA) signals.
- 10. (Original) The method of claim 9, wherein the slotted paging channel operates in accordance with IS-95.
- 11. (Currently Amended) A Wireless Communications Device (WCD) with reduced power consumption, the WCD operating in sleep and awake modes during monitoring of a slotted paging channel, comprising:

a plurality of counters of substantially equal periods, each counter having a roll over point at a predetermined offset relative to each other counter to establish substantially equal time increments between adjacent roll over points;

a plurality of timing points that occur at the roll over times for the plurality of counters; and

a controller that transitions the WCD between sleep and awake mode operation at the occurrence of one of the plurality of timing points.

- 12. (Original) The device of claim 11, wherein each of the counters are distributed at substantially equal time increments around a PN sequence period.
- 13. (Original) The device of claim 11, wherein each of the counters are synchronized to a corresponding pseudonoise (PN) sequence generator.

PATENT Docket: 000128

- 14. (Original) The device of claim 13, wherein each of the corresponding PN sequence generators are shifted by an offset, thereby enabling the demodulation of a corresponding multipath transmission component.
- 15. (Original) The device of claim 11, wherein the controller commences awake mode operation at a predetermined number of timing points before the beginning of a paging channel slot assigned to the WCD.
- 16. (Original) The device of claim 11, wherein the controller commences sleep mode operation at a predetermined number of timing points after the beginning of a paging channel slot assigned to the WCD.
- 17. (Original) The device of claim 11, wherein the controller commences awake mode operation two timing points before the beginning of a paging channel slot assigned to the WCD.
- 18. (Original) The device of claim 11, wherein the controller commences sleep mode operation at a first occurring timing point after the WCD determines there is no paging traffic to decode during a paging channel slot assigned to the WCD.
- 19. (Original) The device of claim 11, wherein the slotted paging channel carries code division multiple access (CDMA) signals.
- 20. (Original) The device of claim 19, wherein the slotted paging channel operates in accordance with IS-95.
- 21. (Currently Amended) A Wireless Communications Device (WCD) with reduced power consumption, the WCD operating in sleep and awake modes during monitoring of a slotted paging channel, comprising:

means for providing a plurality of counters of substantially equal periods;
means for establishing a roll over point for each counter at a predetermined offset
relative to each other counter to establish substantially equal time increments between adjacent
roll over points;

means for identifying a timing point for at least one roll over point; and

Appl. No. 09/690,673 Amdt. dated 9/9/04 Reply to Office Action of 3/10/04 PATENT Docket: 000128

means for transitioning between the sleep and awake modes during the occurrence of an identified timing point.

22. (Original) A computer program product comprising computer program logic for enabling a processor in a computer system to reduce average power consumption in a wireless communication device (WCD), the WCD operating in sleep and awake modes during monitoring of a slotted paging channel, comprising:

means for enabling the processor to provide a plurality of counters of substantially equal periods;

means for enabling the processor to establish a roll over point for each counter at a predetermined offset relative to each other counter to establish substantially equal time increments between adjacent roll over points;

means for enabling the processor to identify a timing point for at least one roll over point; and

means for enabling the processor to transition between the sleep and awake modes during the occurrence of an identified timing point.